

Experience

4 years+

Deutsche Bank

Aug 2020 – Jul 2024

Associate Analyst

- Performed data analysis of over **600K** loss-making events and applied **clustering algorithms (K-Means, DBSCAN)** and **NLP algorithms (TF-IDF, BERT model)** to identify root causes and correlation among loss making events data and their linkages which helped the business to reduce investigation time by **30%**.
- Developed and deployed a **predictive dashboard** which improved data retrieval efficiency by **40%** in high volume production environment for business users and enabled a holistic view of Permitted Products within the organization, through **SQL query plan optimization** and implementing **indices in Elasticsearch and Logstash pipeline**.
- Developed and deployed a **new data model schema** for a third-party data producer (OPUS & CCO) and performed **data back-population** by executing multiple **SQL & Python scripts** to maintain data consistency across **100K** records. **[Biggest Team Delivery - 2024]**.

Senior Analyst

- Led end-to-end design and development of Criteria-Driven Approvals and Condition-Driven Products by implementing advanced **JPA Criteria API queries** and creating a highly **interactive and responsive UI dashboard using ReactJS**, improving overall response time by **50%**. **[Biggest Team Delivery - 2023]**.
- Designed an interface for monitoring the execution of **Apache Spark Jobs** by generating and analyzing **SLA and Execution metrics** using real-time data from the **Spark History Server**, improving system efficiency by **35%**.

Technology Analyst

- Developed a **React Native app** as part of a hackathon, incorporating **Text and Voice Sentiment Analysis** and an **AI Chatbot**. The was ranked among the top **5%** of entries.
- Owning Practice Deployment activities for major releases, while also ensuring stability and support for pre-prod environments.

IBM

Jul 2019 – Dec 2019

Software Engineer Intern

- Successfully integrated Apple's social login identity feature, "**Sign in with Apple REST API 1.0**", into the **IBM Cloud Identity Connect** software.
- Developed comprehensive **unit tests for the Health Check API**, ensuring reliable performance across various microservices within the IBM Cloud Identity Connect platform and generated detailed **code coverage reports** to identify untested code paths and improve overall test coverage.

Core Skills

<b>Frameworks</b>	Spring, NodeJS, Apache Spark, Numpy, Pandas, Matplotlib, Tensorflow, Scikit-learn, React Native, Elasticsearch, LogStash, Jupyter, IPython	<b>Languages</b>	Python, R, Java, Scala, Typescript, C++
<b>Technologies</b>	Microservices, Exploratory Data Analysis, REST/SOAP API, OAuth, Veracode, LDAP	<b>Database</b>	Oracle SQL, MongoDB
		<b>Cloud</b>	GCP, GKE
		<b>OS</b>	Debian, Ubuntu, Windows, Docker
		<b>Tools</b>	Git, Neovim, Latex, Microsoft Excel

Education

Rutgers University - New Brunswick

Jul 2024 – Present

Master of Science in **Statistics**

**Relevant Coursework:** Machine Learning for Engineers, Linear Regression Analysis, Methods and Theory of Probability

B.I.T.S Pilani University

Aug 2016 – May 2020

Bachelor of Engineering in **Computer Science**

**Relevant Coursework:** Data Structure and Algorithms, Design and Analysis of Algorithms, Machine Learning, Data Mining, Number Theory

Certifications

- **Coursera** - Deep Learning Specialization, Algorithms on Strings (UC San Diego), Algorithms on Graphs (UC San Diego), Software Architecture (University of Alberta), Service Oriented Architecture (University of Alberta)
- **Google Cloud Skills Boost** - Deploy to Kubernetes in Google Cloud, Automating infrastructure on Google Cloud with Terraform, Google Cloud Essentials

Academic Projects

Object Localization in Image   Python, Keras, Pandas, Matplotlib, Numpy, Pillow	Sep 2018
Creating a Linked-Data enabled smart client   Python, Flask, FastAPI, Docker, Redis,	Feb 2019
Reinforcement Learning Model for solving CartPole-v1 problem   Python, Tensorflow, Numpy, Matplotlib, OpenAI Gym	Mar 2019

Awards/Achievements

- DB Recognition Award – For exemplary performance and great contribution in a quarter.
- Recognized in RFT Success Story for Biggest Team Delivery 2024 and 2023.
- Ranked 58 in level 3 among 6000 teams in Flipkart GRiD – Te[a]ch The Machines — 2019
- Scored 370/450 (Top 0.22%) in BITSAT (Indian National Level Entrance Examination)